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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re application of: Richard A. Mathies, et al.

Attorney Docket No.: UCALP020/B03-085

Application No.: 10/750,533

Examiner: Beisner, William H.

Filed: December 29, 2003

Group: 1744

Title: FLUID CONTROL STRUCTURES IN  
MICROFLUIDIC DEVICES

Confirmation No: 5540

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**CERTIFICATE OF EFS-WEB TRANSMISSION**

I hereby certify that this correspondence is being transmitted electronically  
through EFS-WEB to the Commissioner for Patents, P.O. Box 1450 Alexandria,  
VA 22313-1450 on April 30, 2008.

Signed: /Joyce L. Ferreira/  
Joyce L. Ferreira

**RESPONSE TO OFFICE COMMUNICATION AND AMENDMENT**

Mail Stop Amendment  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In response to Office communication mailed April 17, 2008, please amend the above-identified patent application as follows:

**Amendments to Claims** begin on page 2 of this paper.

**Remarks** begin on page 5 of this paper.